**DOCKET NO.: ABDT-0576** 



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Deih Salah-Eldin Bayoumi, et al.

**Confirmation No.:** 

**Application No.: 10/699,104** 

Group Art Unit: Not Yet Assigned

Filing Date: October 31, 2003

**Examiner: Not Yet Assigned** 

For: SYSTEM AND METHOD FOR INTEGRATING TRANSACTIONAL AND REAL-TIME MANUFACTURING DATA

DATE OF DEPOSIT:

3/1/04

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O., BOX 1450, ALEXANDRIA,

TYPED NAME: John E. McGlynn REGISTRATION NO.: 42,863

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of

the above identifie	ed application as set forth in § 1.491, before the mailing date				
of a first Office A	action on the merits of the above-identified application, or				
before the mailing	date of a first Office Action after the filing of request for				
continued examination under § 1.114, no additional fee is required.					
In accordance with	n § 1.129(a), this Information Disclosure Statement is being				
filed in connection	n with  the first or  second After Final Submission,				
therefore:					
Cer	tification in Accordance with § 1.97(e) is attached; or				
☐ The	e fee of \$180.00 as set forth in § 1.17(p) is attached.				
In accordance with	n § 1.97(c), this Information Disclosure Statement is being				
filed after the period set forth in § 1.97(b) above but before the mailing date of					
either a Final Action	on under § 1.113 or a Notice of Allowance under § 1.311, or				
before an action th	at otherwise closes prosecution in the application, therefore:				
	Certification in Accordance with § 1.97(e) is attached;				
	or				
	The fee of \$180.00 as set forth in § 1.17(p) is attached.				
In accordance with	n § 1.97(d), this Information Disclosure_Statement is being				
filed after the mailing date of either a Final Action under § 1.113 or a Notice					
of Allowance under § 1.311 but before, or simultaneously with, the payment					
of the Issue Fee,	therefore included are: Certification in Accordance with §				
1.97(e); and the su	bmission fee of \$180.00 as set forth in § 1.17(p).				

DOCKET NO.: ABDT-0576 -3- PATENT

	Copie	s of each of the references listed on the attached Form PTO-1449 are
	enclos	sed herewith.
$\boxtimes$	Copie	s of references listed on the attached Form PTO-1449 are enclosed
	herew	rith
$\boxtimes$	Copie	s of references listed on the attached Form PTO 1449 are not required to
	be su	bmitted pursuant to the June 30, 2003 recent revisions to 37 CFR §
	1.98(a	a)(2)(i).
	EXCE	EPT THAT:
	$\boxtimes$	In view of the voluminous nature of references 22, 40 and 41, and the
		likelihood that these references are available to the Examiner, copies
		are not enclosed herewith.
		In accordance with § 1.98(d), copies of the following references listed
		on the attached Form PTO-1449 are not enclosed herewith because
		they were previously cited by or submitted to the U.S. Patent and
		Trademark Office in patent application(s) for which a claim for priority
		under 35 U.S.C.§ 120 have been made in the instant application:
		Copies of references [list as appropriate] listed on the
		attached Form PTO-1449 were previously cited by or submitted
		to the Patent and Trademark Office in prior Application No.
		, filed .

**PATENT** 

**DOCKET NO.: ABDT-0576** 

- 4 -

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

There are no listed references which are not in the English language.

Date:

3/1/04

John E. McGlynn

Registration No. 42,863

WOODCOCK WASHBURN LLP One Liberty Place - 46th Floor

Philadelphia, PA 19103 Telephone: (215) 568-3100

Facsimile: (215) 568-3439

© 2004 WW



Form 1	PTO	-1449 Modified	Docket No. ABDT-0576/B030280	Application No. 10/699,104	
C	List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Deia Salah-Eldin Bayoumi, et al.		
		nent of Commerce Frademark Office	Filing Date October 31, 2003	Group Not Yet Assigned	
. 07	THE	R DOCUMENTS (Includ	ing Author, Title, Date,	Pertinent Pages, Etc.)	
	2	System", IEEE Solutions	r, <b>1998,</b> 55-57	t Paperless Manufacturing	
	3				
	4	Eckerson, W., "Paperfree Factory gets Patriot Flying", Network World, 8(52), 2 pages			
	5	Fouhy, k. et al., "Paperless Batch Plants become a Reality", <i>Chemical Engineering</i> , 1995, 31-33			
	6	Fuller, L.F. et al., "A Joint Industry_university CIM Project for University Microelectronics Manufacturing", <i>IEEE</i> , <b>1991</b> , 37-40			
	7	Automation, May 1993, 48-49			
	8	Jain, H.K. et al., "E-R Approach to Distributed Heterogeneous Database Systems for Integrated Manufacturing", <i>Information Resources Management Journal</i> , <b>1992</b> , 3(1), 21-29			
	9	Johanson, D.C. et al., "Application of a B&W Developed Computer Aided Pictorial Process Planning System to CQMS for Manufacturing Process", Supercollider 4, 1992, 513-516			
	10	Haverson, D.S., RS/6000 Drives Paperless Manufacturing", Applied Solutions, 21-22			
EXAMINER	I	L	DATE CON	SIDERED	

© 2004 WW

Form PTO-1449 Modified			Docket No ABDT-05	76/B030280	Application No. 10/699,104	
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Deia Salah-Eldin Bayoumi, et al.				
	U.S. Department of Commerce Patent and Trademark Office			e 31, 2003	Group Not Yet Assigned	
OT	HER	R DOCUMENTS (Includ	ing Author	, Title, Date,	Pertinent Pages, Etc.)	
•	11	Han, M.H. et al., "Flow of Stockout Cost", Int. J. Pr			acturing: Minimization of 1-715	
	12	<b>1996,</b> 91, 419-420	_		ung der Geschaftsprozesse", ZWF,	
	13					
	14	Ram, S.N. et al., "Paperless Manufactruing for IC Assembly", <i>IEEE/SEMI Int'l Semiconductor Manufacturing Science Symposium</i> , <b>1992</b> , 90-93			, <b>1992</b> , 90-93	
	15 Remson, M.G., "Paperles			ess Manufacturing, A Challenge Now and in the Future", onductor Manufacturing Science Symposium, 1991, 89-94		
	16 Saad, et al., "Effectiveness of Dynamic Rescheduling in Agent-Based Flexible Manufacturing Systems", SPIE, 3203, 88-99					
Vasilash, G.S., "Meeting the Future Head- Production, July 1993, 50-55						
	Vide, J.J. et al., "FMS Work Flow Optimization", Proceedings of the 1986 Summe Computer Simulation Conference, 1986, 705-710					
	19					
	20	Shop Solutions-"Islands of Automation have Paperless Links", <i>Manufacturing Engineering</i> , <b>1997</b> , 134-136				
EXAMINER	EXAMINER				SIDERED	

Form 1	PTO	-1449 Modified	Docket No. ABDT-0576/B030280	Application No. 10/699,104		
C	ited b	t and Publications by Applicant sheets if necessary)	Applicant Deia Salah-Eldin Bayoumi, et al.			
		nent of Commerce Trademark Office	Filing Date October 31, 2003	Group Not Yet Assigned		
O'	THE	R DOCUMENTS (Includ	ling Author, Title, Date,	Pertinent Pages, Etc.)		
-	21	"Revamping Manufactur	ring", Computer-Aided En	gineering, <b>1995</b> , 10-11		
*	22	of Technology		nated Manufacturing", Georgia Institute		
	23	Dewhurst, F. et al., "Towards Integrated Manufacturing Planning with Common Too and Information Sets", <i>International Journal of Operations &amp; Production Management</i> , <b>2001</b> , 21(11), 1460-1482				
	24					
	25	Greenwell, R.M. et al., "Computer-aided Acquisition of Manufacturing Information Advances in Engineering Software, 1994, 20, 1-12				
	26					
	27	Structures", International	ntegrated Manufacturing Systems: The Concept and al Journal of Production of Economics, 1991, 25, 5-12			
	28					
	29 Jean-Luc, G., "Automated Shop Floor Control System and Method of Operation Thereof", <i>Patents Alert</i> , <b>5530857</b> , page 87			•		
	Naylor, A.W., et al., "Design of Integrated Manufacturing System Control Soft <i>IEEE Transactions on Systems, Man, and Cybernetics,</i> <b>1987,</b> SMC17-(6), 881-			acturing System Control Software", etics, 1987, SMC17-(6), 881-897		
EXAMINER			DATE CON	SIDERED		

<sup>\*</sup>A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

Form PTO-1449 Modified			Docket No. ABDT-0576/B030280	Application No. <b>10/699,104</b>	
Ci	List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Deia Salah-Eldin Bayoumi, et al.		
U.S. Department of Commerce Patent and Trademark Office			Filing Date October 31, 2003	Group Not Yet Assigned	
ОТ	HER	R DOCUMENTS (Includ	ing Author, Title, Date,	Pertinent Pages, Etc.)	
	31	Oreshin, K.P. et al., "Into KAMAZ Work Complex 13-15	egrated Multilevel System ", Soviet Journal of Instr	n for Control of Production of the numentation and Control, 1983, 4,	
	32	Ouelhadj, D. et al., "A M	Systems (FMS)", Proceed	ol for Dynamic Scheduling in dings of the IEEE International 4-1119	
	33	Patkai, B., "A Cooperativities, 1998, 2518-2521	ve Scheduling System for	Paper Machinery Manufacturing",	
	34	Ramaswamy, S.E. et al., Workstations", <i>IEEE Tro</i> 400	"Deadlock-Free Schedul ansactions on Robotics ar	es for Automated Manufacturing ad Automation, 1996, 12(3), 391-	
	35	Roberts, P.D. et al., "A C and Control, Abstracts, 0		Integrated Operations Management	
	36		eness of Dynamic Resche	eduling in Agent-Based Flexible	
	37	Slomp, J. et al., "A Manu Manufacturing System", 10(1/2), 109-114	ofacturing Planning and C Robotics & Computer-In	Control System for a Flexible tegrated Manufacturing, 1993,	
	38	8 Zhu, L. et al., "FMS Job-Shop Scheduling Under Disruptions with Consideration of Time and Sequence Deviation", Proceedings of the IEEE International Symposium on Intelligent Control/Intelligent Systems and Semiotics, 1999, 138-143			
	39	"Integrated Manufacturing AMICE, Computing and	ng-A Challenge for the 19 Control Engineering Jou	990s", ESPRIT Consortium urnal, <b>1991,</b> 101-102	
*	40	K. Kachigan, <i>Multivaria</i> Edition, <b>1991</b>	te Statistical Analysis, A	Conceptual Introduction, 2 <sup>nd</sup>	
EXAMINER DATE CONSIDERED					

A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

© 2004 WW

HORM PICE-1449 WINDHIED		Docket No. ABDT-0576/B030280	Application No. 10/699,104	
		Applicant Deia Salah-Eldin Bayoumi, et al.		
	nent of Commerce Trademark Office	Filing Date October 31, 2003	Group Not Yet Assigned	
ОТНЕ	R DOCUMENTS (Includ	ing Author, Title, Date, l	Pertinent Pages, Etc.)	
* . 41	Regression, 2002, John V	Viley & Sons, Inc.,	Nonlinear Classification and	
42	Cox, D., "Analyzing Tran			
43	Design", Proceedings of	A Synergetic Neural Network-Genetic Scheme for Optimal on", Integrated Computer-Aided Engineering, 2002, 9, 37-56		
44	Computer Engineering, 2			
••	Transformer Constructio			
45	Institution of Electrical E			
. 46	Balma, P.M. et al., "Expo Diagnostics, and Design 58th Annual Meeting, 199		nsformer Maintenance, the American Power Conference,	
EXAMINER		DATE CONS	SIDERED	

A copy of this reference will not be forwarded to the U.S. Patent and Trademark since it is believed to be too voluminous and easily obtainable by the Examiner

©2004 WW

For	rm PT	O-1449 Modified	d	Docket No. ABDT-0576/B030280	Application No. <b>10/699,104</b>		
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Applicant Deia Salah-Eldin Bayoumi, et al.			
-			Filing Date October 31, 2003 Group Not Yet Assigned		igned		
ů.		U. S	S. PATENT	T DOCUMENTS			
Examiner Initial		Document No.	Date	Name	Class	Subclass	
	47	5,311,438	05/10/94	Sellers, et al.	364	468	
	48	5,463,555	10/31/95	Ward, et al.	364	468	
	49	5,835,764	11/10/98	Platt, et al.	395	671	
	50	6,324,259 B1	02/05/02	Sandoual .	705	7	
	51	6,324,523 B1	11/27/01	Killeen, Jr. et al.	705	35	
· · · · · ·	52	6,477,521 B1	11/05/02	Kuomura, et al.	707	1	
	53	2001/0042092 A1	11/15/01	Kudo, et al.	709	200	
-	55	2002/0143598 A1	10/03/02	Scheer	705	9	
	56	6,633,772	10/14/03	Ford, et al.	600	345	
	57	6,636,862 B2	10/21/03	Lundahal	707	101	
	·	FORE	IGN PATE	ENT DOCUMENTS			
Examiner Initial		Document No.	Date	Country	Tra YES	nslation NO	
	58	EP 0 567 291 A2	10/27/93	EPO			
	59	EP 0 721 625 B1	04/24/02	EPO			
<del></del>	60	WO 95/09387	04/06/95	PCT			
	61	WO 98/57285	12/17/98	PCT			
	62	WO 99/15979	04/01/99	PCT			
·	63	WO 01/02928 A2	01/11/01	PCT	,		
	64	WO 01/50405 A1	07/12/01	PCT			
EXAMINER				DATE CONSIDERED		***************************************	